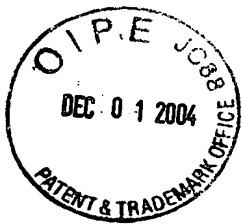


Fig. 1



REPLACEMENT SHEET
Title: Automated System for Rating Pipe Segments in a Water
Distribution System Appl.: Kevin B. Kirwan. Appl. No.: 09/668,081
Atty Docket No. 427-4 Customer No.: 570

Microsoft Access - [bhw\orkinput1.mdb] File Edit View Insert Tools Window Help

Field Name	Data Type	Description
Order Number	AutoNumber	
Date Received	Date/Time	
Date Started	Date/Time	
Customer Name	Text	
Street Number	Text	
Street Name	Text	
Nearest Cross Street	Text	
Town	Text	
Town Section	Text	
Phone Number	Text	
Customer Account Number	Number	
Requested By	Text	
Service Number	Text	
Account Charged	Text	
Description of Job	Text	Extract Water Main Break and Customer Water Quality Work Orders
Markout Required Y or N	Text	
Job Priority	Text	
Date Completed	Date/Time	

Field Properties

General

Field Size: 45

Format: >

Input Mask:

Caption:

Default Value:

Validation Rule:

Validation Text:

Required: No

Allow Zero Length: No

Indexed: No

This property cannot be modified in linked tables.

Design view: F6 = Switch panes; F11 = Help

Fig. 2



Microsoft Access - [tblHydrantFlushing] File Edit View Insert Tools Window Help

Field Name	Data Type	Description
ID	AutoNumber	
HYDRANT #	Text	
FLUSH DATE	Date/Time	
STATIC PRESSURE	Number	
FLOW-GPM	Number	
GALLONS FLOWED	Number	
CL2 RESIDUAL	Number	
RESIDUAL PRESSURE	Number	
REMARKS	Memo	
EMPLOYEE NUMBER	Text	
SIZE OPENING	Text	
FULL FLOW TEST	Text	
COMMENTS	Text	

Field Properties

General	Lookup
Field Size	150
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	
Validation Text	
Required	No
Allow Zero Length	No
Indexed	No

Design view. F6=Switch panes. F11=Help

This property cannot be modified in linked tables.

Fig. 4



Microsoft Word 97 - [Untitled - Microsoft Word] File Edit Format Tools Window Help

Select Order Number to find: 14056 New

Order Number: 14056 Customer Name: [Empty]

Service Order #: 4340 Street Number: 310

Date Received: 12/1/98 Street Name: FISHER AV

Date Started: 12/15/98 Cross Street: WEST LAKE AV

Date Completed: 12/15/98 Town: NEPTUNE

Requested By: [Empty] Town Section: [Empty]

Job Priority: ROUTINE Phone Number: [Empty]

Description of Job: WATER MAIN BREAK Account Charged: V30174

Notes: SERVICE SADDLE DETERIORATED. CEMENT MAIN COLLAPSED HAD TO REPLACE AND RETAP FOR SERVICE. CONT. DUG LEAK.

Employee Assigned To Job: EVANS F. Date Assigned: 12/15/98

Check Number: 072 Total # Employees On Job: 2

Total Time To Complete: 6 Time Arrived On Job: 12:30 PM

Record: 12/15/98 11:52 AM of 12 (Filtered)

Form View: [Empty] Microsoft Access - [Empty]

Fig. 5



Microsoft Access - Form View - frmMainLines : Form

Select Order Number to find: 14056

New

WaterMain Data Input Form

Order Number	14056	Condition of Main	POOR
Valve Number #1	78	Type of Main Break	Physical Damage
Valve Number #2	84C	Size of Main	6
Depth of Main(ft)	3.5	Number of Customers Affected	30
Map Page		Total Time of Shut Down (Hrs)	4
Material of Main	CEMENT	Class Form	

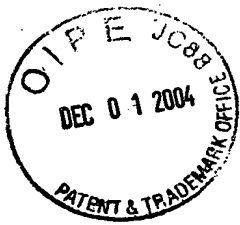
Record: 1 of 1 (Filtered)

Employee Assigned to Job	EVANS F.	Date Assigned	12/15/98
Truck Number	072	Initial # Employees on Job	2
Time to Complete	6	Time Arrived on Job	12:30 PM

Record: 1 of 1 (Filtered)

Microsoft Access - [Start] [Kevin Kirwan's Inbox - Lotus] [277 Microsoft Word Document] [N 2:22 PM]

Fig. 6



Microsoft Word - Hydrant Data - Belb

Filter Hydrant Data - FORM

GO TO: BLOW OFF FORM

Select Hydrant Like HNT-95

Call Hydrant Out of Service

GO TO: NO FLUSHING DATA

Hydrant Data

HYDRANT #: HNT-95

TOWN: NEPTUNE, N.J.

ROUTE #: 4018

STREET NAME: FISHER AV

INTERSECTING STREET: SPRINGWOOD AV

LOCATION OF HYDRANT: INSIDE 250' S OF SPRINGWOOD AV

MAP PAGE: 12

DEAD END MAIN: NO

VALVE LOCATION: 4' OUT

ELEVATION:

SIZE: 4.75

DIRECTION OPEN:

LATERAL SIZE: 4 INCH

INSTALLED: 33926

MAKE:

SIZE OF MAIN: 6 INCH

LATERAL VALVE:

REMOVED:

MUELLER:

STYLE: CENTURION

MAIN MATERIAL:

WORK ORDER: A-9760

STATUS: ACTIVE

REMARKS:

Record: 1/1/2004 1:13:11 PM (Filtered)

Please Use two digit State, 4 digit County, 4 digit State Hwy. #

Start: Kevin Kirwan - Inbox Microsoft Word: Pipe... Microsoft Access: FS... Microsoft Access: 3:46 PM

Fig. 7



Microsoft Word - Hydrant Data

GOING TO: []
FLOW: []
DATE: []

Hydrant Data

Hydrant # [HNT-95]

NEW RECORD

FLUSH DATE	4/7/99	EMPLOYEE	1805040	STATIC PRESSURE	78
FLOW/GPM	1050	GALLONS FLOWED	15750	RESIDUAL PRESSURE	
CHLORINE	1	SIZE OPENING	4 INCH		

REMARKS: NO OFFSET

REMARKS:

INSTALLED: 2/02/99 12:45 PM

REMOVED: []

STATUS: ACTIVE

Microsoft Access

Fig. 8



Microsoft Access - [tblTotalPoints - Tab1] File Edit View Insert Tools Window Help

Field Name Data Type Description

Order Number	AutoNumber	
Town	Text	
Street Name	Text	
Description of Job	Text	Like Water Main Break, Water Quality Complaint
Size of Main	Number	
Number of Customers Affected	Number	
Total Time of Shut Down (Hrs)	Number	
Expr1	Number	Results of Expression from the query that calculates the total points based on entered criteria
Expr2	Number	Results of Expression from the query that calculates the total points based on entered criteria
Expr3	Number	Results of Expression from the query that calculates the total points based on entered criteria
Expr4	Number	Results of Expression from the query that calculates the total points based on entered criteria
Expr5	Number	Results of Expression from the query that calculates the total points based on entered criteria
Expr6	Number	Results of Expression from the query that calculates the total points based on entered criteria
Expr7	Number	Results of Expression from the query that calculates the total points based on entered criteria

Field Properties

General

Field Size: Long Integer

Format: Auto

Input Mask: No

Caption: No

Default Value: No

Validation Rule: No

Validation Text: No

Required: No

Indexed: No

Design view. F6 = Switch panes. F11 = Help

The field description is optional. It helps you describe the field and is also displayed in the status bar when you select this field on a form. Press F1 for help on descriptions.

Fig. 10



qyP date_Crossabb

Town	Street Name	Total	Hydrant	Water Main Break	Water Quality / Dirty Water	Water Quality Pressure Problem
NEPTUNE	FISHER AV	25		25		
BRADLEY BEACH	NEWARK AV	21		21		
BRADLEY BEACH	PARK FINCH AVE	15		15		
NEPTUNE	STANTON RD	15		15		
NEPTUNE	WEST PARKS AVE	15		15		
OCEAN TOWNSHIP	MONMOUTH RD	15		15		
ALLENTOWN	ALLEN ST	14		14		
MIDDLETOWN	FLORENCE AV	13		13		
NEPTUNE CITY	GREEN AVE	13		13		
ASSBURY PARK	MATTHEWSON AV	13		13		
ASSBURY PARK	SECOND AV	13		13		
ASSBURY PARK	ELM STREET	13		13		
ASSBURY PARK	BRADLEY AVE	13		13		
ASSBURY PARK	THIRD AV	13		13		
BRADLEY BEACH	OCEAN AV	11		11		
NEPTUNE	DUPRANO RD	11		11		
OCEAN GROVE	HECK AV	11		11		
LONG BRANCH	BRADLEY AVE	10		10		
MIDDLETOWN	OCEANVIEW AV	10		10		
MIDDLETOWN	SEVENTH AV	10		10		
NEPTUNE	COCKBURN AVE	10		10		
NEPTUNE	STRATFORD AVE	10		10		
OCEAN TOWNSHIP	SEWARD AVE	10		10		
ABERDEEN	ANDOVER LA	9		9		
ABERDEEN	ARDMORE LA	9		9		
ABERDEEN	CARROLL LA	9		9		
ABERDEEN	IRVING AVE	9		9		
ASSBURY PARK	FIRST AV	8		8		
LONG BRANCH	ALBERT PL	8		8		
MIDDLETOWN	CENTRAL AVE	8		8		
MIDDLETOWN	HAMILTON AVE	8		8		
MIDDLETOWN	MAPLEWOOD AV	8		8		
MIDDLETOWN	PROSPECT AV	8		8		
NEPTUNE	LAKEWOOD RD	8		8		
NEPTUNE	ROBBINS RD	8		8		
OCEAN GROVE	OCEAN AV	8		8		
OCEAN TOWNSHIP	LAKEVIEW AV	8		8		
OCEAN TOWNSHIP	LAMBERT JOHNSON DR	8		8		

Page 1

Fig. 11